Ethernet Internet Access (EIA) COMBO Ordering Process ASR Activity N & D

Contents

Frontier Wholesale
Rochester, NY

Jurisdiction: All
Effective Date: 08/19/2019
Revised Date: 7/27/2023

Purpose

This document is intended as an aid to Frontier Customers for the purpose of ordering using the COMBO ordering process. This ordering process will allow:

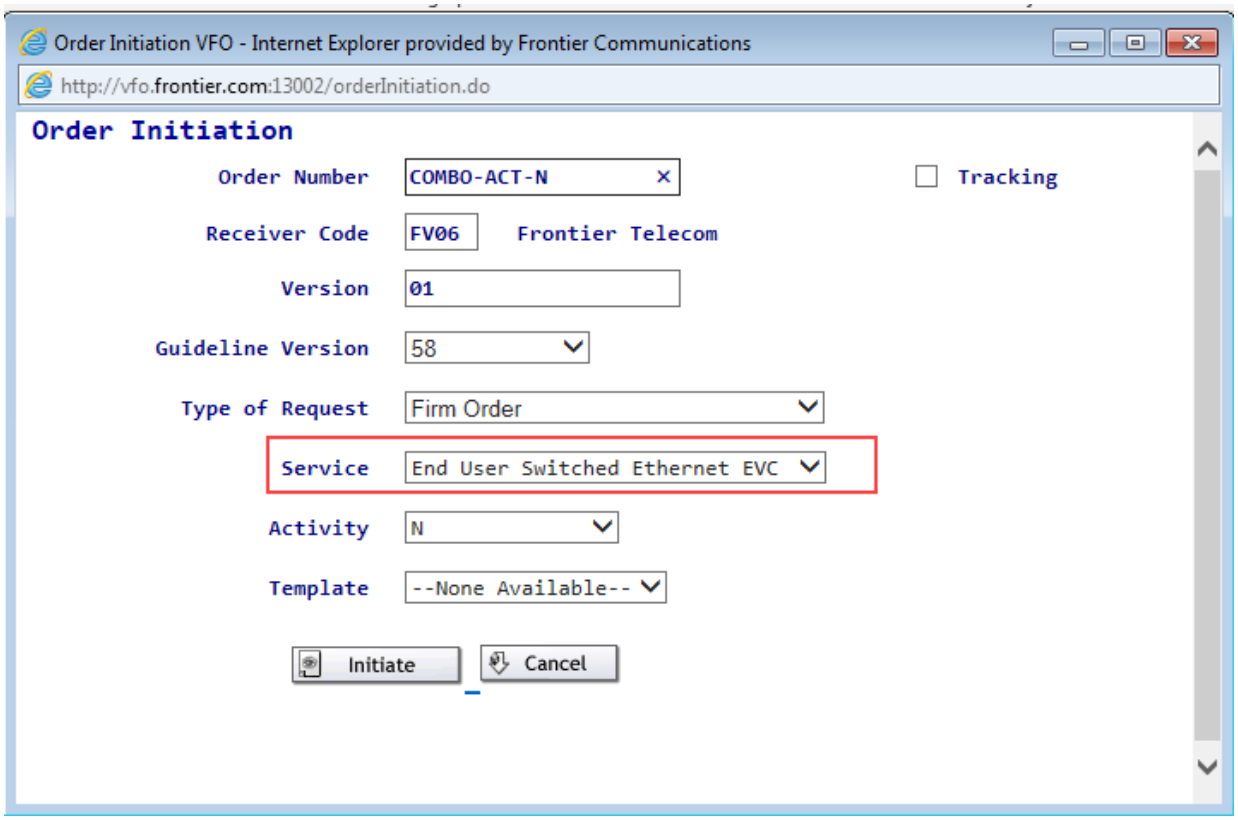
1. The Wholesale Customer to order a UNI Circuit and EVC using Frontier's NNI to carry the Ethernet Traffic on one ASR
2. For Standard CIDR request (/28, /29 and /30, /64, and /128) the IP Request Form will no longer be needed
3. For Non Standard CIDR: /27 and above
    a. PON will receive a C/NR
        i. CONTACT ACCT MGR, SUPP REQD
        ii. The Account Team will also be notified of the Non Standard IP Request and it will be necessary to work with that team
            1. *Non Standard IP Request* include static routing of net-blocks that are foreign to Frontier's network.
                a. *Frontier Static Routing Policy* can be found here: http://ipadmin.frontier.com/static.html
        iii. A SUP may or may not be required
3. Reduced cycle time utilizing one ASR for both the UNI and EVC
4. Simplified ordering
5. All change orders will need to be done on a Stand Alone EVC and or a Stand Alone UNI
6. Completion and FOC of the UNI and EVC on the same day

Note: If the UNI PON was sent before 8/18/2019, to establish new service, it will be worked as a Stand Alone PON. The corresponding EVC PON would need to be ordered and processed as a Stand Alone as well.

VFO Service Type for COMBO

When creating a new Order Request

1. Select the End User Switched Ethernet EVC for COMBO Ordering



ASR COMBO EXAMPLE

ASR FORM

FIELD	ENTRY	FIELD DESCRIPTION	ASR Activity Type
CUSTOMER CODE	Customers CCNA	Customer Carrier Name Abbreviation	N – Required D – Required
DDD	20 Business Days	Desired Due Date	N – Required D – Required
PROJECT	Customer generated	Identifies the project with which the request is to be associated	N – Optional D – Optional
REQTYP	ED = End User	Identifies the type of service being requested	N – Required D – Required
ACT	N	Identifies the activity involved in this service request	N – Required D – Required
QSA	01	Identifies the total number of Service Address Location Information	N – Required D – Optional
EVCI	B	Ethernet Virtual Connection Identifier	N – Required D – Required
SEI	Y	Switched Ethernet Indicator	N – Required
RTR	F - Send FOC only S - Send FOC and DLR; CDLRD waived N - No response required	Identifies the type of confirmation response requested by the customer	N – Required D – Required (Value N or F only)
EXP	Populated if Expedite is requested	Indicates that expedited treatment is requested and any charges generated in provisioning this request	N – Optional D – Prohibited
UNIT	C	C = Number of lines	N – Required D – Optional
PIU	100	Percentage of Interstate Usage	N – Required D – Prohibited
QTY	1	Identifies the quantity of circuits	N – Required D – Required
BAN	E, N or Fully Populated BAN	Identifies the billing account to which the recurring and non-recurring charges for this request will be billed	N – Required D – Required
RPON	If issuing because of a Bandwidth Upgrade then populate the ACT D PON	Identifies the PON of a related Access Service Request	N – Optional D – Optiona Required when issuing for a Bandwith Upgrade
TSP	Example: TSP12345C-E1	Indicates the provisioning and restoration priority	N – Optional D – Optional
SPEC	ETHACC	Identifies a specific product or service offering	N – Required D – Optional
ASC-EC	Prohibited	Identifies the ICSC code of the Access Service Coordination - Exchange Company	N – Prohibited D – Prohibited
ASR REMARKS	Customer Populated	Identifies a free flowing field, which can be used to expand upon and clarify other data on this form	N – Optional D – Optional

ASR BILLING SECTION

FIELD	ENTRY	FIELD DESCRIPTION	ASR Activity Type
BILLNM - Billing Name	Example: XYZ Corp.	Identifies the name of the person, office, or company to whom the customer has designated that the bill be sent	N – Optional N - Required when BAN field equals N D – Optional
ACNA	Access Customer Name Abbreviation	Identifies the COMMON LANGUAGE IAC code for the customer who should receive the bill for the ordered service	N – Required D – Required
TE	Example: A = F & S B = F & C	Indicates that the customer has submitted a tax exemption form to the provider	N - Optional N - Required when BAN field equals N
FUSF	Example: E = Exempt Federal Universal Service Fee	Federal Universal Service Fee Indicates the service being ordered on this request should be either assessed or exempted from the Federal Universal Service Fee	N – Required D – Prohibited
BILL_STR		Identifies the street of the billing address associated with the billing name	N - Optional N - Required when BAN field equals N D – Optional
BILL_CITY		Identifies the city, village, township, etc. of the billing address associated with the billing name	N - Optional N - Required when BAN field equals N D – Optional
BILL_STATE		Identifies the two character postal code for the state/province of the billing address associated with the billing name	N - Optional N - Required when BAN field equals N D – Optional
BILL_ZIP		Identifies the ZIP code or postal code of the billing address associated with the billing name	N - Optional N - Required when BAN field equals N D – Optional
BILL CON		Identifies the name of the person or office to be contacted on billing matters	N - Optional N - Required when BAN field equals N D – Optional
BILL CON TEL NO		Identifies the telephone number of the billing contact	N - Optional N - Required when BAN field equals N D – Optional
VTA	Refer to your EIA contract for negotiated Term Agreement	Identifies the duration, identifying USOC, contract date or contract identification number of any variable term agreement that may be offered	N – Required D – Optional
VTAI	Identifies the intended activity for the associated Variable Term Agreement (VTA)	A = New Variable Term Agreement	N-Required D-Optional
PNUM	Signed Contract Number provided by accunt team. Must begin with EIA, EIB or EIP	Identifies the contract tariff option for a pricing promotion plan	N – Required D – Optional

CONTACT SECTION

FIELD	ENTRY	FIELD DESCRIPTION	ASR Activity Type
INIT	Example: Jane Smith	Identifies the customer employee who originated the request	N – Required D – Required
INITIATOR TEL	Example: 9999999999	Identifies the telephone number of the customer employee who initiated the request	N – Required N – Required
INIT EMAIL	Example: Jane.Smith@abc.com	Identifies the electronic mail address of the initiator	N – Required D – Optional
DSGCON	Example: Jane Smith **First and Last Name are required.** **A spaced is required between first and last name.**	Identifies the employee of the customer or agent who should be contacted on design/ Engineering/translation issues and to whom the Design Layout Report may be sent. Required when RTR is F or S	N – Required D – Prohibited
DSGCON TEL	Example: 9999999999	Telephone number of employee of the customer or agent who should be contacted on design/ engineering/translation issues and to whom the Design Layout Report may be sent	N - Required D – Prohibited
IMPCON	Example: Jane Smith	Identifies the customer employee or office responsible for control of installation and completion	N – Required D – Required
IMPCON TEL	Example: Jane Smith	Identifies the telephone number of the implementation contact	N - Required D – Required

SES FORM

Determine how many IP Addresses needed based on CIDR

How many IP Addresses do I need

a. What is my CIDR?((Classless Inter-Domain Routing) – this is a method for allocating IP addresses and IP routing)

Frontier will use the last 2 positions of the IP address field on the SES form to determine the CIDR requested

Based on the CIDR value and TOS value required, utilize the chart below to determine the IP Justification Usage

CIDR Not used on the VFO Request	SES FORM			EVC FORM			
	IPAI	SUBNET	IP ADDRESS	TOS	IP USAGE VALUES		ECI NAMES
				WAN or FLAT	MIN	MAX	Customer will only populate what is being requested
/28	4 or M	255.255.255.240	111.111.111.28	000000	**7**	14	**VPN** **FIREWALL** **COMPUTERS** **SERVERS** **WEB HOSTING** **VIRTUAL GAMING/TRAINING** **DSL** **These values must be populated exactly as listed here**
/28	4 or M	255.255.255.240	111.111.111.28	111111	6	13	
/29	4 or M	255.255.255.248	111.111.111.29	000000	3	6	
/29	4 or M	255.255.255.248	111.111.111.29	111111	2	5	
/30	4 or M	255.255.255.252	111.111.111.30	000000	1	2	
/30	4 or M	255.255.255.252	111.111.111.30	111111	1	1	
/64	6	Prohibited	111.111.111.64	111111	Unlimited		
/128	6	Prohibited	111.111.111.128	000000	Unlimited		

Ethernet Internet Access (EIA) COMBO Ordering Process ASR Activity N & D

How to populate the IP_ADDRESS, IPAI and SUBNET_MASK fields that are required on New Activity

- **Standard Frontier CIDR values**
  - /28, /29 and /30 utilizing IPAI of 4 or M
  - /64 and /128 utilizing IPAI of 6

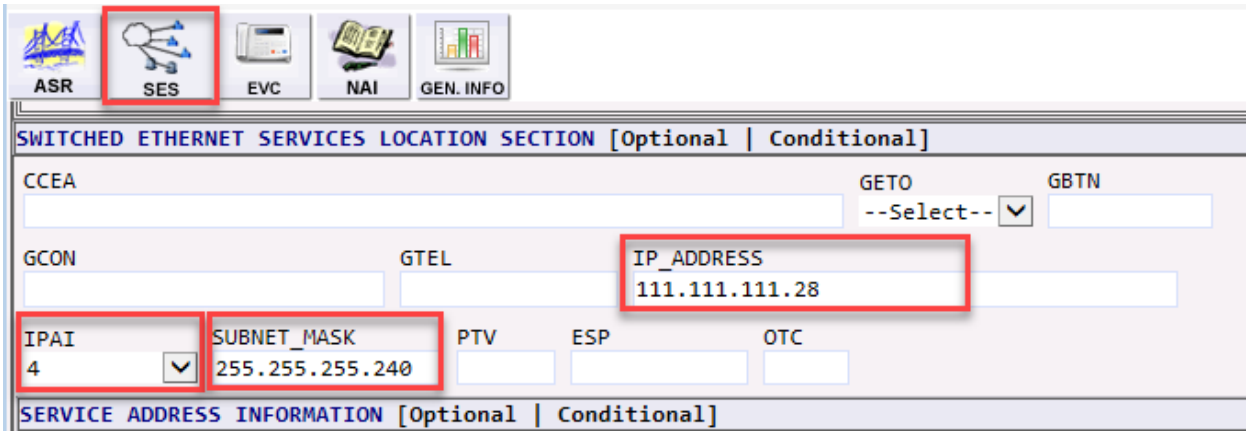
Submission of orders outside of the Standard CIDR will require the customer to work with their Sales Engineer to submit the DIA Extended IP Request Form

CIDR Block	**IP_ADDRESS** **IPAI** **SUBNET_MASK**
This CIDR information was previously populated on the IP Request Form. It will now be utilized using the IPAI, IP_ADDRESS and SUBNET_MASK fields on the ASR SES Form	

CIDR Block	IPAI (IPV)	SUBNET_MASK	IP_ADDRESS **For Ordering Purposes populate this field with corresponding** **Actual IP Address will be returned after Completion notice**
/28	4 or M	255.255.255.240	111.111.111.28
/29	4 or M	255.255.255.248	111.111.111.29
/30	4 or M	255.255.255.252	111.111.111.30
/64	6	Prohibited	111.111.111.64
/128	6	Prohibited	111.111.111.128

SES FORM

Populate the following fields from the highlighted area in the chart above



FIELD	ENTRY	FIELD DESCRIPTION	ASR Activity Type
NC	Refer to Ethernet NC/NCI and SPEC codes Job Aid for product specific codes https://wholesale.frontier.com/access-services/ethernet-ordering/ethernet-nc-nci-secnci-job-aids	Network Channel	N – Required D – Optional
NCI	Refer to Ethernet NC/NCI and SPEC codes Job Aid for product specific codes https://wholesale.frontier.com/access-services/ethernet-ordering/ethernet-nc-nci-secnci-job-aids	Network Channel Interface	N – Required D – Optional
SECNCI	Refer to Ethernet NC/NCI and SPEC codes Job Aid for product specific codes https://wholesale.frontier.com/access-services/ethernet-ordering/ethernet-nc-nci-secnci-job-aids	Secondary Network Channel Interface	N – Required D – Optional
ESP	Ethernet Service Point. Switch CLLI.	Identifies the Ethernet switching point, terminating equipment or terminating location, in CLLI code format	N – Prohibited D – Prohibited

FIELD	ENTRY	FIELD DESCRIPTION	ASR Activity Type
IPAI	Use values in the above chart	Identifies the version of the Internet Protocol Address within the network interface device at a host or end user location for Ethernet based service.	N – Required D – Prohibited
SUBNET_MASK	Use values in the above chart	Identifies the Subnet Mask associated to the Internet Protocol Version 4 (IPv4) Address within the network interface device at a host or end user location for Ethernet based service.	N – Required D – Prohibited
IP_ADDRESS	Use values in the above chart (Prohibited with /64 & /128)	Identifies the Internet Protocol Address within the network interface device at a host or end user location for Ethernet based service.	N – Required D – Prohibited

SES FORM – Service Address Information

SES FORM – SERVICE ADDRESS INFORMATION			
FIELD	ENTRY	FIELD DESCRIPTION	ASR Activity Type
PI	Y	Identifies that the service address location information being provided is a primary location	N – Required D – Optional
EUNAME	End User's Name	Identifies the end user name associated with the termination location	N – Required D – Optional
SANO	End User's Address	Identifies the number of the service address	N – Required D – Optional
SASN	End User's Street	Identifies the street name of the service address	N – Required D – Optional
SATH	Example: LN, ST, RD,AVE	Recommended abbreviations are contained in the United States Postal Service Publication 28, Postal Addressing Standards Street Suffix Abbreviations section	N - Optional D – Optional When the SASN field is populated, otherwise prohibited
SASS	Example: E = East N = North NE = North East SW = South West	Identifies the street directional suffix of the service address	N - Optional D – Optional When the SASN field is populated, otherwise prohibited
LD1	Example: FL RM	Identifies additional specific information related to the service address	N - Optional D – Optional When the SASN field is populated, otherwise prohibited
LV1	Example: 12	Identifies the value associated with the first location designator of the service address	N - Optional D – Optional When the LD1 field is populated, otherwise prohibited
LD2	Example: FL RM	Identifies additional specific information related to the service address	N - Optional D – Optional When the SASN field is populated, otherwise prohibited
LV2	Example: 12	Identifies the value associated with the first location designator of the service address	N - Optional D – Optional When the LD2 field is populated, otherwise prohibited
LD3	Example: FL RM	Identifies additional specific information related to the service address	N - Optional D – Optional when the SASN field is populated, otherwise prohibited

SES FORM – SERVICE ADDRESS INFORMATION			
FIELD	ENTRY	FIELD DESCRIPTION	ASR Activity Type
LV3	Example: 12	Identifies the value associated with the first location designator of the service address	N - Optional D – Optional When the LD3 field is populated, otherwise prohibited
CITY	End User's City	Identifies the city, village, township, etc. of the service address	N – Required Required when the SASN field is populated, otherwise prohibited
STATE	End User's State	Identifies the state/province of the service address	N – Required Required when the SASN field is populated, otherwise prohibit
ZIP	End User's ZIP Code	Identifies the ZIP code, ZIP code + extension or postal code of the service address	N - Required when the SASN field is populated, otherwise prohibited
JS	D	Indicates whether the access service is to terminate at a new or existing registered jack or demarc	N – Required D – Optional
LCON	Example: John Smith	Identifies the local contact name for access	N – Required D – Optional
ACTEL	Example: 9999999999	Identifies the telephone number to be used for the purpose of arranging access to the service address location for installation purposes.	N – Required D – Optional
LCON_EMAIL	Example: John.Smith@ftr.com	Identifies the electronic mail address of the local contact	N – Required D – Optional
ALCON	Example: John Smith	Alternate Local Contact	N – Required D – Optional
ALCON_TEL	Example: 9999999999	Identifies the telephone number associated with the local contact	N – Required D – Optional
ALCON_EMAIL	Example: DOMAIN@FTR.COM	In this field customer must populate "**DOMAIN**@ in the first 7 positions. After the @ sign populate your company Domain	N – Required D – Optional
GETO	Demarc extension	Required if Demarc location is being extended beyond the MPOE	N-Optional

EVC FORM – Ethernet Virtual Connection

Step 1: Justify the IP Usage values

Using the ECI NAMES & ECI VALUES located on the EVC Form

EVC FORM ECI Fields

- A section on the EVC Form will be used and will replace the IP Address Usage Section on the IP Request Form.
  - ECI_NAME
  - ECI_VALUE

Current IP Address Usage

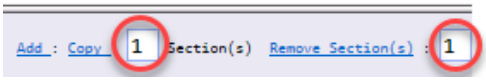
Please provide the numbers detailing your current network in order to justify the requested IP Block.

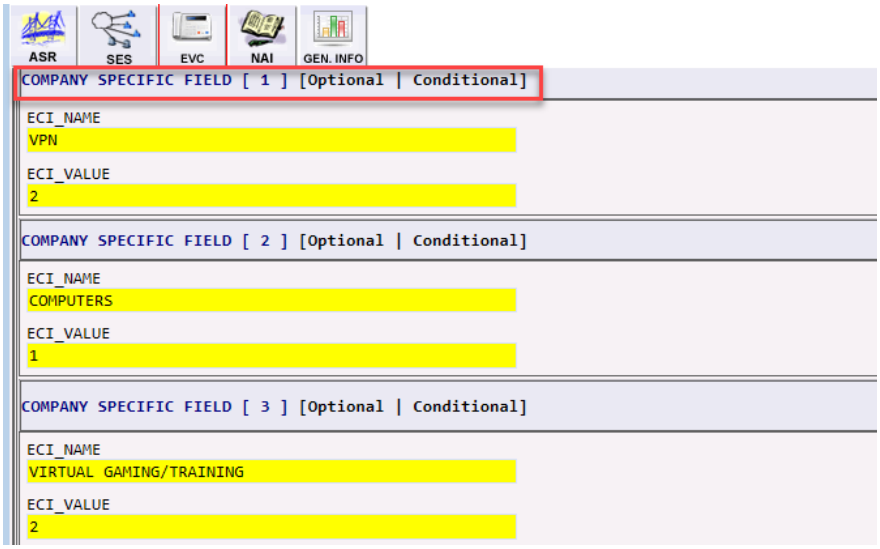
Remember to include any ip count required for a FLAN LAN if choosing a FLAT LAN connection so the customer's needs don't get shorted.

6e	VPN	0	IP addresses
6f	Firewall	0	IP addresses
6g	Computers	0	IP addresses
6h	Servers	0	IP addresses
6i	Web Hosting	0	IP addresses
6j	Virtual Gaming/Training	0	IP addresses
6k	DSL (explain count below)	0	IP addresses

NOTE: Only use the ECI Fields located on the EVC FORM. From the EVC FORM you will need to scroll down to the first instance of the Company Specific Field at the CKT Level Section to locate the fields.

- The Company Specific Field Section on the EVC Form will be used to justify the requested IP Block. This section will be required on the ASR
- On the EVC Form scroll past the last LREF to locate the COMPANY SPECIFIC FIELD Section. This section is used to justify the IP Usage. (Note: The ECI Section is the first instance of these fields. There is also an ECI Section at the bottom of the EVC Form. DO NOT USE THIS SECTION)
- Adding or Removing additional IP Blocks
  - Select the Add or Remove Section
  - The Number field can also be used to add or remove multiple sections





Step 2: Do I need WAN LAN or FLAT LAN?

a. WAN LAN – depending on the size of the block, Frontier will assign:
   /30 LAN with a /30 WAN
   /29 LAN with a /30 WAN
   /28 LAN with a /30 WAN
b. FLAT LAN IPs will always face Frontier and Frontier will assign:
   A single /30 facing directly to Frontier
   A single /29 facing directly to Frontier
   A single /28 facing directly to Frontier.

Populate TOS field on the EVC Mapping based on values below

c. TOS Values: 000000 = WAN LAN or 111111 = FLAT LAN

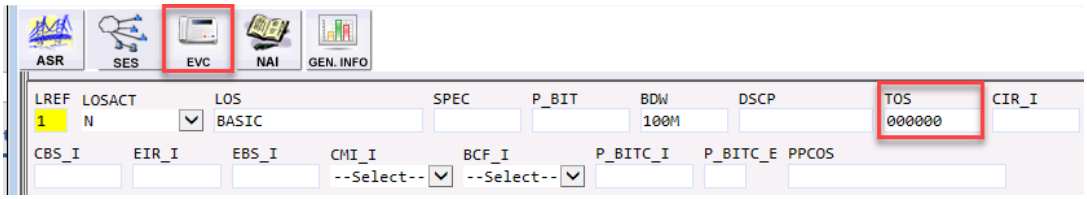
EXAMPLE:

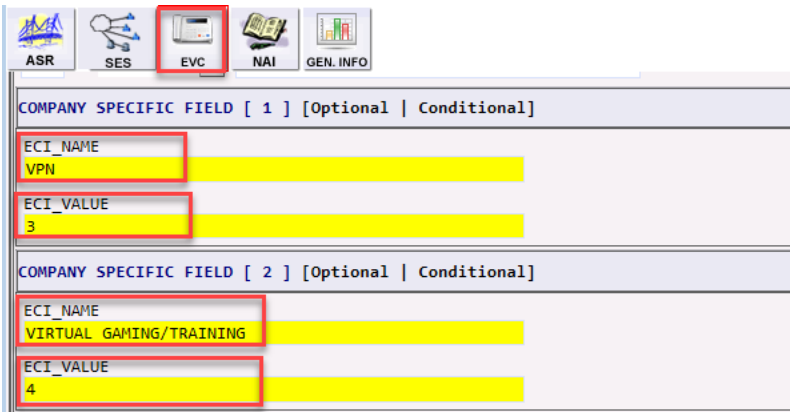
Customer needs to order WAN LAN IP utilizing 3 VPN and 4 VIRTUAL GAMING/TRAINING . Using the data provided in the table below populate the fields on the ASR Request.

CIDR (Not used on the VFO Request)	SES FORM			EVC FORM			
	IPAI	SUBNET	IP ADDRESS	TOS	IP USAGE VALUES		ECI NAMES
					MIN	MAX	Customer will only populate what is being requested
/28	**4 or M**	**255.255.255.240**	**111.111.111.28**	**000000**	**7**	14	**VPN** **FIREWALL**
/28	4 or M	255.255.255.240	111.111.111.28	111111	6	13	**COMPUTERS**
/29	4 or M	255.255.255.248	111.111.111.29	000000	3	6	**SERVERS**
/29	4 or M	255.255.255.248	111.111.111.29	111111	2	5	**WEB HOSTING**
/30	4 or M	255.255.255.252	111.111.111.30	000000	1	2	**VIRTUAL GAMING/TRAINING**
/30	4 or M	255.255.255.252	111.111.111.30	111111	1	1	
/64	6	Prohibited	111.111.111.64	111111	Unlimited		
/128	6	Prohibited	111.111.111.128	000000	Unlimited		**DSL** **These values must be populated exactly as listed here**

EVC FORM

Populate the TOS field and ECI NAME and ECI Value based on the highlighted fields above



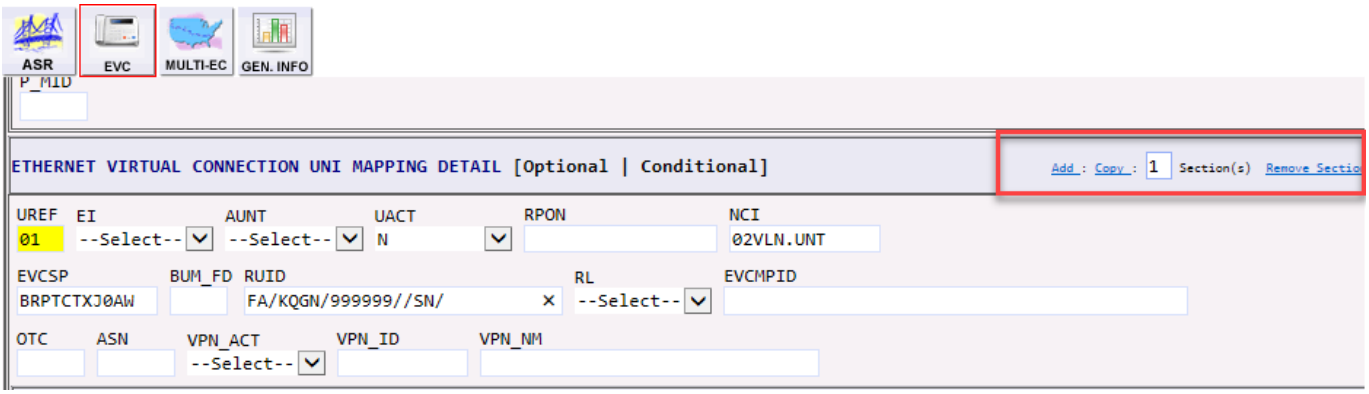


EVC FORM			
FIELD	ENTRY	FIELD DESCRIPTION	ASR Activity Type
EVCNUM	Example: 0001	Ethernet Virtual Connection Reference Number	N – Required D – Required
NC	VLP-	Network Channel	N – Required D – Optional
NUT	02	Number of UNI Terminations	N – Required D – Optional
EVCCKR	Optional- customer format	Customer Ethernet Virtual Circuit Identifier	N – Optional D – Optional
EVC UNI Mapping (UNI) **UREF 01**			
UREF - 01	01	User Network Interface [UNI] Reference Number	N – Required D – Optional
AUNT	Value = A Always use the AUNT field in the UREF 01 Section	Associated UNI Termination	N – Required D – Optional
UACT	N	User Network Interface [UNI] Activity Indicator	N – Required D – Optional
NCI	02VLN.UNT	Network Channel Interface	N – Required D – Optional
EVCSP	**Prohibited** on UREF - 01	Ethernet Virtual Connection Switch Point	N – Prohibited D – Prohibited
RUID	**Prohibited** on UREF - 01	Identifies the provider's related circuit ID for a UNI	N – Prohibited D – Prohibited

EVC Level of Service Mapping Detail			
LREF	1	Level of Service Reference Number	N – Required D – Optional
LOSACT	N	Identifies the activity for the level of service as part of the EVC configuration	N – Required D – Optional
LOS	BASIC	Identifies a name for a provider-defined level of service performance associated with the Ethernet product offering	N – Required D – Optional
BDW	Speed of UNI Circuit. Example ‘20M’	Bandwidth identifies the bandwidth rate defined by the Level of Service.	N – Required D – Optional
TOS	000000 = WAN LAN 111111 = FLAT LAN	Required field to determine provisioning of EVC as WAN/LAN or FLAT LAN	N – Required D – Optional

Adding an Additional UREF 2 Section to the EVC Form

1. VFO will automatically add the UREF 01 Section. Complete the required fields for the section.
2. To Add the 2nd UREF, select the Add button.
3. Performing a Copy will duplicate this section to UREF 02. Be sure to change the data the applies to UREF 02.
4. Using the Remove Section will remove the UREF section entirely.



EVC UNI Mapping (Frontier provided NNI/CLF) **UREF 02**			
UREF - 02	02	User Network Interface [UNI] Reference Number	N – Required D – Optional
UACT	N	User Network Interface [UNI] Activity Indicator	N – Required D – Optional
NCI	Populate with 02VLN.V	Network Channel Interface	N – Required D – Optional
EVCSP	Populate with **NEWINNICLLI**	Ethernet Virtual Connection Switch Point	N – Required D – Optional
RUID	Populate with **NEW**	Identifies the provider's related circuit ID for a UNI	N – Required D – Optional
CE-VLAN	Customer can populate this field to assign their own VLAN. Otherwise Frontier will assign the VLAN	An identifier derivable from a content of a service frame that allows the service frame to be associated with an EVC at the UNI.	N – Optional D - Prohibited
EVC Level of Service Mapping Detail			
LREF	1	Level of Service Reference Number	N – Required D – Optional
LOSACT	N	Identifies the activity for the level of service as part of the EVC configuration	N – Required D – Optional
LOS	Basic	Identifies a name for a provider-defined level of service performance associated with the Ethernet product offering	N – Required D – Optional
BDW	Speed of UNI Circuit. Example '20M' (Must match UREF entry 1)	Bandwidth identifies the bandwidth rate defined by the Level of Service.	N – Required D – Optional
TOS	**Prohibited. Do not populate**	Leave field blank	N – Prohibited D – Prohibited

IP Address Usage Section EVC Form, ECI Fields

EVC FORM – ECI Fields for IP Justification

FIELDS

- A New section on the EVC Form will be used and will replace the IP Address Usage Section on the IP Request Form.
  - ECI_NAME
  - ECI_VALUE

Valid Values for ECI NAME Field:

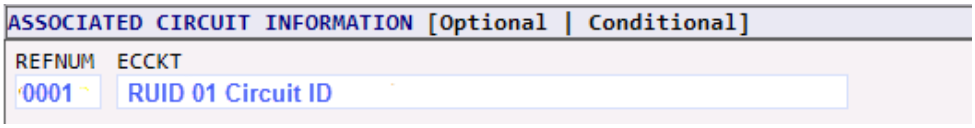
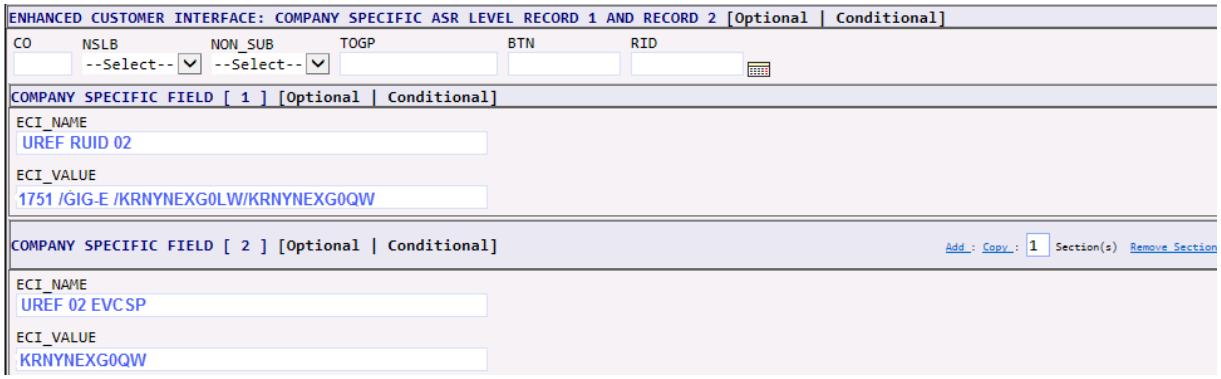
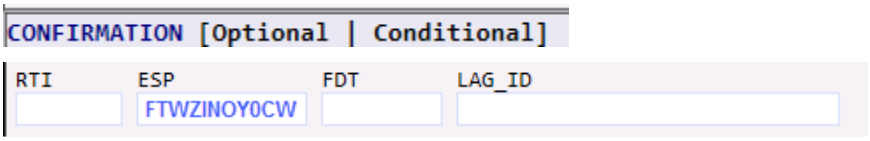
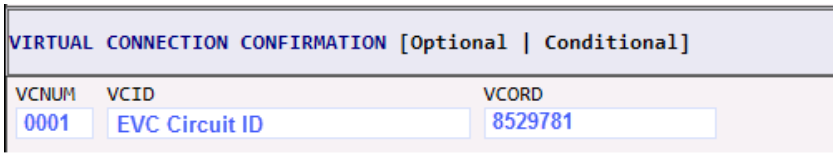
VPN, FIREWALL, COMPUTERS, SERVERS, WEB HOSTING, VIRTUAL GAMING/TRAINING and DSL

Note: These values must be entered in the field exactly as shown or an error will be displayed

FIELD	ENTRY	FIELD DESCRIPTION	ASR Activity Type
ECI_NAME	VPN FIREWALL COMPUTERS SERVERS WEB HOSTING VIRTUAL GAMING/TRAINING DSL	Used for IP Justification	N – Required D – Prohibited
ECI_VALUE	1 to 14 when ordering Standard offerings	The value is based on the table below and is dependent on the CIDR and TOS values	N – Required D – Prohibited

Information Provided on the FOC

Note: The change on the Confirmation Notice for Combo ordering will be the addition of the UREF 02 ECCKT and EVCSP. The information provided in the FOC will be used on any future ASR Activity

1.	The New UNI ECCKT for UREF 01/RUID will be provided on REFNUM 0001 
2.	The Frontier NNI ECCKT UREF 02/RUID will be provided on the ECI_NAME and ECI_VALUE The EVCSP will be provided on the ECI Name and ECI Value 
3.	The ESP (Ethernet Switch CLLI). This is the EVCSP associated with RUID 01 
4.	The New EVC ECCKT 

IP Information – Informational C/NR before ASR completion

1. An informational C/NR will be sent before Completion of the ASR. The following information will be provided in the Remarks field of the C/NR:

   - LAN IP (IP INFO sent via separate email when IPAI equals M)
   - WAN IP
   - GATEWAY
   - SUBNET
   - FTR (Frontier IP Address)
   - CXR (Customer IP)

   NOTE: The Primary and Secondary DNS will be added to the Information C/NR with a future release.

   The values will always be:
   Primary-DNS = 74.40.74.40
   Secondary-DNS = 74.40.74.41

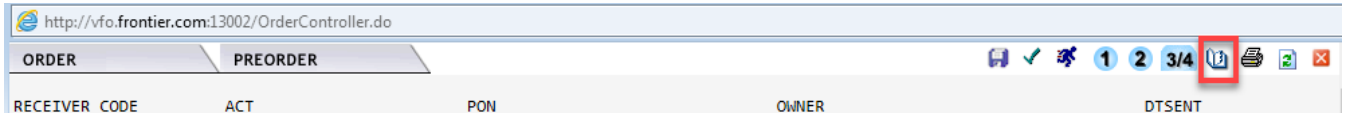
   Example #1 – (IPAI = M)

   LAN IP: IP INFO Sent via separate email; WAN IP: 50.122.62.160/30; GATEWAY: 50.122.62.161; SUBNET: 255.255.255.252; FTR: 50.122.62.161; CXR: 50.122.62.162;

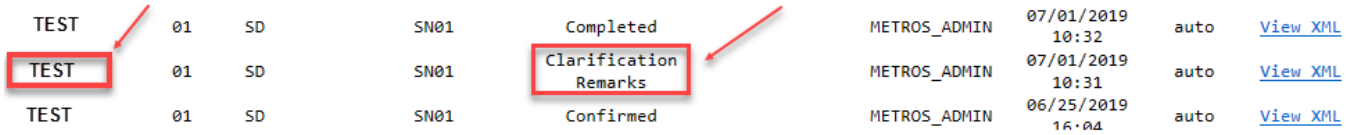
   Example #2 – (IPAI = 4 or 6)

   LAN IP: 192.182.73.128/27; WAN IP: 50.122.62.160/30; GATEWAY: 50.122.62.161; SUBNET: 255.255.255.252; FTR: N/A; CXR: 50.122.62.162;

   The Information C/NR can be found on the History Tab in VFO



   From the ASR History Page, double click the PON to the left of Clarification Remarks. The PON is TEST in this example



   This will take you to the ASR Response – Clarification Remarks Page
   REMARKS
   IP INFO: LAN IP: 104.229.33.177/28 WAN IP: 32.225.6.136/30 GATEWAY: 104.223.33.176 FTR: 32.223.4.137 CXR: 32.224.6.137

   NOTE: An informational E-mail will be sent from HostmasterFrontiernet.net with the assigned IP address. It is not necessary to add this to the existing PON. All IP information will be sent on the informational C/NR.

Change Log

Date	Page Number	Change
08/19/2019		New Document
08/21/2019	Page 4	Added Note: An informational E-mail will be sent from HostmasterFrontiernet.net with the assigned IP address.
08/27/2019	Page 11	Corrected VTA Reference
09/03/2019	Page 7	Clarified which ECI_NAME Section should be used for IP Justification
09/17/2019	Page 2	Add Link to Training Video
11/4/2019	Page 12	Further defined PNUM field
06/17/2020	Page 2	Updated *Non Standard IP Request* include static routing
4/7/2021	Page 6	Added definitions for WAN and FLAT LANs
6/7/2021	Page 12	Added RPON field
11/24/2021	16	Add Ethernet NC/NCI/SECNCI page URL
07/27/2023	9	Prohibited ESP field

